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## CoupleTones - User stories

### **CoupleTones: Effortlessly stay in touch with your partner throughout your day**

[Paragraph 1] CoupleTones is a location-based Android application that provides you with notifications when your partner (i.e., girlfriend, boyfriend, etc.) visits one of his/her favorite locations (and *vice versa*). To set up a favorite location, you click it on the map and assign it a name. Then, later, your partner will be notified by CoupleTones when you visit the location. The app will keep an ordered list of the locations that your partner has visited throughout the day.

Priority list: High, medium, low **[also, number the priorities 1 is highest]**  
**please use the order of features presented above as an initial priority: earlier requirements are higher priority**

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### **Risk Analysis**

**Risk:** Location/map feature [Jisu]

**Estimate:** 1 day

**Priority:** High [1]

**Risk:** Scope of usage

**Description:** We need to clarify the allowed scope of open source software

**Severity:** High

**Resolution:** We are going to consult the client/instructor on the limits of open source software

**Status:** Unresolved

**Risk:** Unfamiliar with Android

**Description:** Many of our team members have either no prior experience, or very little prior experience with Android and Android Studios.

**Severity:** Medium

**Resolution:** We will pay attention to upcoming labs, concepts, or ask for clarifications on areas we do not understand.

**Status:** Unresolved

**Risk:** Very Little Available Time

**Description:** When it's time to develop, many of our team members have other important events we must attend to, such as midterms, or projects for other classes.

**Severity:** High

**Resolution:** We will develop a strict schedule that will help us make time for other important events, as well as meet deadlines for this app.

**Status:** Unresolved

**Risk:** Unpredictable illness [Jing]

**Description:** We are human, illness is one thing that we cannot predict.

**Severity:** Medium

**Resolution:** Select the right clothes(do not get sick) and eat clean food(avoid food poisoning)

**Status:** Resolved

**Risk:** Malfunctioning final application [Zeyi]

**Description:** The final result may not work to the professor's perspective, or in the worst case scenario, it may not function at all.

**Severity:** High

**Resolution:** Carefully run tests in an ordered timely fashion.

**Status:** Unresolved

**Risk:** Not completely understanding customer's request [Zeyi]

**Description:** **Severity:** Medium

**Resolution:** Iterate more with the customer by asking all of our doubts in order to clarify misunderstandings.

**Status:** Unresolved We may be drifting into the wrong direction, as a consequence, developing an unreliable product.

**Risk:** Overthinking the Project [Sam]

**Description:** We might overthink what's necessary to accomplish the customer's requirements, and make it difficult or impossible to finish the project on time

**Severity:** High

**Resolution:** Make sure we understand the requirements fully and focus only on the MVP, and make our solution as simple as possible

**Status:** Unresolved

**Risk:** Development Platform Compatibility [Sam]

**Description:** Since we're developing on different operating systems, configuring Android Studio to work and build properly across different computers might be problematic

**Severity:** Medium

**Resolution:** Make sure that Android Studio is setup properly on all developer's computers before we begin developing

**Status:** Unresolved

For example:

Risk: Not meeting enough

Description: We have only 3 hours a week in common where we can all meet

Severity: High

Resolution: We have blocked off the those three hours in our schedules. We will do our stand-ups daily after class.

Status: resolved

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BDD User Story Format:

Title (one line describing the story)

Narrative:

As a [role]

I want [feature]

So that [benefit]

Acceptance Criteria: (presented as Scenarios)

Scenario 1: Title

Given [context]

And [some more context]...

When [event]

Then [outcome]

And [another outcome]...

Scenario 2: ...

Above is the template that's described in the reading for how we're supposed to make our user stories. Each of the scenarios are part of the acceptance criteria for a user story and include the different set of inputs from the user and states of the system at the time the user generates those inputs to the system. This format helps us break down the user stories into tasks so we can better estimate how long the user story will take to implement and test, etc. I'm pretty sure this is the right way we're supposed to be making our user stories, so if you've already started on them, try to convert them to this format. If any of you think this is wrong, please let me know so I can remove this.

Here's an example of a user story I put together that's just describing notifications in the CoupleTones app:

### **1. Receiving Notifications when your partner is at a favorite location [Sam] - High Priority**

**As a** User with a partner on CoupleTones,

**I want** to be notified when my partner is at one of their favorite locations

**So that** I can feel connected to my partner when we're apart.

Scenario 1: Both users have app active

**Given** I have the app open

**and** my partner has the app open or active in the background  
**When** my partner is within 100 feet of a favorite location of theirs  
**Then** I will receive a notification in the form of (something)

Scenario 2: User has app in background

**Given** I am not currently viewing the app  
**and** the CoupleTones app is active in the background  
**and** my partner has the app open or active in the background  
**When** my partner is within 100 feet of a favorite location of theirs  
**Then** I will receive a notification in the form of (something)

Scenario 3: Not currently using CoupleTones receiving

**Given** I have not opened the app since I turned off my phone,  
**or** my phone is not on at the moment,  
**and** my partner has the app open or active in the background  
**When** my partner is within 100 feet of a favorite location of theirs  
**Then** I will receive no notification

Scenario 4: Not currently using CoupleTones notifying

Scenario 5: Visiting same location repeatedly

**Given** I have not opened the app since I turned off my phone,  
**or** my phone is not on at the moment,  
**and** my partner has the app open or active in the background  
**When** I am within 100 feet of a favorite location of mine  
**Then** they will receive no notification

---Searching goes here

## 2. Accepting a friend request -Ryan

As a person being friended by someone

I want to be able to accept/reject the attempt of the other person registering me

So that only people I give permission to can know my location

Scenario 1: Both users are okay with being partners

Given that I want to be the partner of Person A

And Person A wants to be the partner of me

When I register Person A as my partner

Then Person A can accept my request so we will be each other's partners on CoupleTones

And when Person A registers me as his/her partner

Then I can accept A's request so we will be each other's partners on CoupleTones

Scenario 2: Receiving User has app in background

Given that I register Person A as my partner

And Person A's phone is running CoupleTones in the background

When I attempt to register Person A as my partner

Then Person A will get a notification to decide whether to accept/reject

And I have to wait for Person A to accept my request before being able to track Person A

Scenario 3: Receiving User is not using CoupleTones

Given that I register Person A as my partner

And Person A's phone is not running CoupleTones in the background

When I attempt to register Person A as my partner

Person A will not get a notification

And I will have to wait for Person A to get the notification to accept my request before being able to track Person A

Scenario 4: One User is not okay with being partnered

Given that I register Person A

And Person A does not want to be my partner

When Person A rejects my request

Person A will not be my partner

And I will not be able to track Person A

### **3. Sending Friend Request [Sam] - High Priority**

**As a** user of couple tones

**I want** to be able to add my partner as a my couple

**So that** my partner will receive notifications when I am at my favorite locations, and vice versa

Scenario 1: Both users have created accounts on Couple Tones

**Given** that my partner has created an account on Couple Tones

**And** so have I

**And** I can uniquely Identify them through the search

**When** I search for their account

**And** select their account

**Then** my partner will be able to choose to accept my request

Scenario 2: Only I have created an account on Couple Tones

**Given** that my partner has not created an account on Couple Tones

**But** I have

**When** I search for their account

**And** I cannot find them

**Then** an option should be given to invite my partner to join Couple Tones

Scenario 3: My partner has a different couple

**Given** that my partner has created an account on Couple Tones

**And** so have I

**And** I can uniquely identify them through the search

**But** my partner is already coupled with someone else

**When** I search for their account

**And** select their account

**Then** I will be notified that I cannot choose them to be my partner as they already have one

Scenario 4: Partner isn't using Couple Tones Currently

Given that my partner has

And I ha

And my partner isn't using the app currently

When I send a request

Then my partner will only receive the notification when they open the app

challenge: autocompleter

#### **4. Setting up a Favorite Location [Sam] - High Priority**

**As a** user of Couple Tones

**I want** to be able to add a favorite location to my list of favorites

**So that** when I visit that location again, my partner will be notified

Scenario 1: User has a partner, adding a Favorite

**Given** that I have a partner on Couple Tones

**When** I open the map within Couple Tones

**And** I then click on the map

**Then** I will be able to add this location to my favorites

**And** be able to assign it a name

Scenario 2: User has no partner, adding a Favorite

**Given** that I have no partner,

**When** I open the map within Couple Tones

**And** then click on the map

**Then** ????

Scenario 3: (User has a partner) Accidentally adding a Favorite

**Given** that I have a partner on Couple Tones

**When** I open the map

**And** then I accidentally click on the map

**Then** I will be able to choose **not** to add this location to my favorites

#### **5. List of Locations [Sam] - High Priority**

**As a** user of Couple Tones

**I want** the app to keep a list of locations my partner has visited throughout the day

**So that** I can review them when using the app

Scenario 1: Partner has visited at least one location today

**Given** that I have a partner on Couple Tones

**And** that my partner has visited at least one location between now and 3am

**When** I open the location list within Couple Tones  
**Then** I will be able to see all of the locations my partner has visited in order

Scenario 2: Partner hasn't visited any locations today

**Given** that I have a partner on Couple Tones  
**And** that my partner hasn't visited any locations  
**When** I open the location list within Couple Tones  
**Then** I will see a message that states my partner hasn't visited any favorited locations today

Scenario 3: Have no Partner

**Given** that I have no partner on Couple Tones  
**When** I open the location list within Couple Tones  
**Then** no locations will be shown

## **6. Deleting a Partner [Sam] - Medium Priority**

**As a** user of Couple Tones  
**I want** to be able to remove my partner  
**So that** I will not be notified when my former partner is at their favorite locations and vice versa

Scenario 1: Removing my Partner

**Given** that I have a partner on Couple Tones  
**When** I open up option to remove my partner  
**And** I select the remove option  
**Then** my (now former) partner will no longer be my couple  
**And** I will be able to add a partner as before (the same person or otherwise)  
**And** I will no longer receive notifications from this person and vice versa  
**And** I will no longer be able to see their list of visited locations and vice versa

Scenario 2: Have no Partner

**Given** that I have no partner  
**When** I open the Couple Tones app  
**Then** there will be no option to remove my partner.

## **7. Works on android phone [Jisu] - High priority**

**As a** user with an Android phone  
**I want** to be able to use the application on my phone  
**So that** I would be able to keep track of my partner who is also using an android phone

**Scenario 1: Using android**

**Given** I am using an android phone  
**And** my partner is using an android phone

**When** we open our applications and register each other  
**Then** we should be able to see each other's activities  
**And** the application should work properly

**Scenario 2:** Only 1 person has an android phone  
**Given** that I am using an android phone  
**And** my partner is not using an android phone  
**When** I open my application and try to register my partner  
**Then** I should fail  
**And** my friend should not be able to use the app  
**Or** register me on CoupleTone

## **8. Ability to toggle the application [Jisu] -- Assumption for iteration - Medium Priority**

**As** a user who values personal privacy  
I want to be able to use the application on my phone with my personal discretion  
**So** that I would be able to have a sense of privacy along with the application's features

### **Scenario 1: Wanting to use the application**

**Given** that I want to use the application  
**And** my partner also wants to use the application  
**When** we open our applications and toggle the application to let us see each other  
**Then** we should be able to see each other's activities  
**And** the application should work properly

### **Scenario 1: Not wanting to use the application**

**Given** I do not want to use the application's tracking features  
**And** my partner is trying to track my location  
**When** I toggled the option that stops the signals  
**Then** my partner should not be able to see my activities  
**And** my privacy would be kept

## **9. Intuitive interface [Jisu] ~~~ Assumption for iteration - Medium Priority**

**As** a user who values the ease of usage on an application  
I want to be able to use the application on my phone without having to figure out difficult features  
**So** that I would be to just download and use without having to learn application-specific features

### **Scenario 1: Navigation**

**Given** I am using the application for the first time  
**And** I have not heard of the application from anywhere else  
**And** I have read the description to know what the application should do



**When** I open the application

**Then** I should be able to navigate through the options without any confusion

**And** All the labels should be intuitive and easy to understand

### **Scenario 2: Location setting**

**Given** I am using the application for the first time

**And** I have not heard of the application from anywhere else

**And** I have read the description to know what the application should do

**When** I open the application and go to the map where I can set my locations

**Then** I should be able to simply tap to put my favorite location onto the map

**And** The application should just ask me to name it without any confusing options.

## **10. Setting link with google account - jiaming hu**

**As** a user who is first time to use this app

**I want** to take a simple process to link with my google account at first time

**so that** I do not need to read a lot of stuff and set to many things for linking my google account at first time.

### **Scenario 1: set up an account with different name, google email**

**Given** my google account did not link with this app

**When** I input the name, email, and there is no account has the same name or same email with mine

**Then** I will receive an email to accept this app with my google account

**Then** this app will link with my google account

### **Scenario 2: set up an account with different name, same google email**

**Given** my google account did not link with this app

**When** I input the name, email, but there is another account which has the same email with my email

**Then** it will remind me to input another google email

## **11. Receiving notifications when partner visits the same favorite location (Extended) - [Zeyi]**

**As** a user with a partner on CoupleTones,

**I want** to be notified when my partner is at one of their favorite locations more than once

**So that** I have a greater chance to stalk him/her.

Scenario 1: Partner visits same favorite location without visiting another favorite location.

**Given** I have the app running

**And** my partner has the app running as well

**And** I already receive a notification of a specific favorite location

**When** my partner visits that same favorite location multiple times

**Given** that he/she did not visit another favorite location

**Then** I will not receive notification with a specific sound tone.

Scenario 2: Partner visits same favorite location after visiting another favorite location.

**Given** I have the app running  
**And** my partner has the app running as well  
**And** I already receive a notification of a specific favorite location  
**When** my partner visits that same favorite location  
**Given** that he/she already visited another favorite location  
**Then** I will receive a notification with a specific sound tone.

## **12. Showing your relationship status [Jing] – Medium Priority**

**As** a user of couple tones  
**I want** to be able to show my relationship status  
**So that** people know if I have a partner or not

### **Scenario 1: I am in a relationship with someone**

**Given** that my relationship status is public  
**When** someone search my account  
**And** they see that I have partner already  
**And** their request for to be a couple will be automatically denied  
**Then** they do not need to send a request

### **Scenario 2: I am not in a relationship**

**Given** that my relationship status is public  
**And** I do not have a partner  
**When** people search my account  
**And** they see that I have no partner  
**And** their request to be my partner will not be denied  
**Then** they can send a request

12. Searching through Circles

13. Adding a Map to the App

## **Information given by MVC Customer**

1. Tracking should start around 3am.
2. Visiting a location is done automatically, when user's GPS location is around 1/10th of a mile.
3. Notification should make something pop up, and play a sound (preferably different for every location)
4. A map will be given that will allow you to enter favorite locations, but only once per location. You will be able to see your favorite location on your map, and your partner cannot see yours. The only time you can see your partner's favorite location is when your partner is at his/her favorite location. THE MAP IS NOT USED TO TRACK YOUR LOCATION, JUST FOR ADDING/SEEING YOUR FAVORITE LOCATIONS.
5. You can remove/add/move favorite locations
6. You can only have 1 partner. If you send a request to be a someone's partner when someone is already a partner of another person, your request is denied.
7. Requests for a partner, or removing a partner, will either be done through Facebook or have a similar mechanic as Facebook (I'm guessing it's like sending friend request, accept/deny, and

confirmation for deleting a partner). If A removes B as a partner, automatically updated for B as well.

8. No limit on favorite location
9. Partner should get notification as soon as you reach favorite location. This implies that constant tracking is required, at least while app is open.
10. Location information is not shared publicly, only between partners.
11. Do not add way to disable/stop location sharing. Only way this can happen is if you close the app, or turn off phone.
12. Search engine like in Google Maps is preferred
13. If possible, try not to make users have "accounts" for this app. However, if it is necessary, prefer Google+ since we are making Android app.
14. Locations between you and partner should not mix. For example, if your partner is close to your favorite location, nothing should happen (unless partner's favorite location is also yours). You only want notification if your partner is close to his/her favorite location, and vice versa for your partner.
15. List of locations should be ordered by most recently visited to least recently visited
16. The map should clearly define where our favorite location is, and we can give a name of that favorite location.
17. A new day will "reset" (AKA when we get to 3am) for the local time of the phone. This is used for when you live in a different time zone as your partner. This implies that a day will be reset at different moments for you and your partner if this is the case (reset when your local time is 3am, but partner's phone won't reset if his/her local time is not 3am).
18. We do not need to be able to look at our list.
19. Do not track number of times a person visits a location.
20. No notification when partner is leaving favorite location.
21. Notification will occur if partner visits different favorite location. For example, if you go home, work, home, partner will get 3 notifications (went to home, then work, then home again). If you go home, home, then work, partner only gets 2 notifications (went to home, then work).
22. Distance between favorite location is set in hard stone as 1/10th of a mile. Cannot change, or add feature for user to toggle this.
23. We need to track the time when user visited his/her location, but not how long user was at the location, or when user leaves.
24. If either phone is off, or app is not launched, message will not be sent to partner. Do not send at all after you launch app, since that can cause confusion. However, you can update the list of visited locations, but just don't send notification.
25. First thing that user should see when opening app is list of the visited favorite locations of partner.
26. Map should initially center at your current location.
27. If you are at an intersection between 2 favorite locations (within 1/10th of a mile between 2 favorite locations), use the closer location as notification. However, when you get closer to the other location, you should send a notification that you are at the other location afterwards.
28. Cooldown timer is promising (prevent sending notifications when you alternate between 2 favorite locations for a set amount of time).
29. Only make sound for notification if partner gets the notification within 30min (used for when partner gets notification, then turns off his/her phone. If they open within 30min, they will still get the sound). Actual time, however, should still be recorded on list.
30. The user can still use his/her app even without a partner.
31. User has no control over the list of his/her visited location history list. AKA, you cannot see your visited location list, nor can you delete entries from it.
32. Use Google's minimum age for registering couples.
33. For now, target mainly newer phones. If necessary, allow support for older phones in a newer version.
34. Make the app work the "Android Way". (This is literally what the answer was. The question was about where to display notifications: at the top bar of an Android phone, or lock screen).
35. Don't automatically add partner's favorite locations to yours, and vice versa.

36. If we are standing at point that is 1/10th of a mile from 2 locations, just return the location that user is closer to (I imagine that standing at the exact spot is very unlikely anyways)
37. We will add partner by probably entering their email (gmail). So no friend search feature required.

#### **Feature Creep:**

1. Allowing user to add extra information for a favorite location
2. Same favorite locations between partners are indicated differently
3. Can use google map (or redirect to any other map) to get to a partner's favorite location (directions to the location)
4. Chat system
5. (Ours) Blocking?
6. (Ours) View partner's profile?
7. (Ours) Grouping

#### **Our questions**

1. If user only has 1 favorite location, how would the notification work, since a notification is only sent when a user goes to a new favorite location?
2. If 2 location's 1/10th of a mile are at the exact same location, and the user is standing at this specific spot, which location should be sent as notification?
3. If we have a bunch of favorite locations that are close together, it can look pretty weird on our map. Should we add a feature to have "group" feature where we have a favorite location on the map that consists of a group of favorite locations? (Function Creep)
4. We can only have 1 partner, but can we send multiple friend requests if we don't have a partner?
5. Add a blocking feature, or having a way to disable the notifications? (Function Creep)
6. Add way to view profile of partner? (Function Creep)
7. How should search feature work? Do we search from our Google+ friends, or from all the registered users?
8. Linking from number 7, if we search up someone who is already in a relationship with someone else, should their names appear in the search list?